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NOTICE OF ALLOWANCE AND FEE(S) DUE

21839

7590

06/29/2010

BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404 EXAMINER

TEATERS, LINDSEY C

ART UNIT PAPER NUMBER

3742

DATE MAILED: 06/29/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,693	07/13/2007	Roland Ringstrom	1027651-000532	2954

TITLE OF INVENTION: APPARATUS FOR THE EVAPORATIVE COOLING OF A LIQUID PRODUCT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including ed below or directed other	g the Patent, advance or erwise in Block 1, by (a	ders and notification of m n) specifying a new corres	naintenance fees wil pondence address; a	I be mailed to the curre and/or (b) indicating a se	nt correspondence address as eparate "FEE ADDRESS" for
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						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	I.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,693	07/13/2007	•	Roland Ringstrom	•	1027651-000532	2954
	SMALL ENTITY		DLING OF A LIQUID PRO	PREV. PAID ISSUE	EEE TOTAL EEE/GADA	III. DATE NIII.
APPLN. TYPE		ISSUE FEE DUE	PUBLICATION FEE DUE			
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/29/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
TEATERS, I	LINDSEY C	3742	099-454000			
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O			4 71	ely, e firm (having as a n gent) and the names meys or agents. If no printed. e)	nember a 2 of up to o name is 3	
recordation as set forti (A) NAME OF ASSIC	h in 37 CFR 3.11. Comp GNEE	letion of this form is NO	I' a substitute for filing an a (B) RESIDENCE: (CITY	and STATE OR CC	UNTRY)	document has been filed for
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	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long			
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Stat	ired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a regist	ered attorney or agent; or	the assignee or other party in
Authorized Signature				Date		
Typed or printed name			Registration Noation is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process			
This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450. Alexandria, V	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or re 1.14. This collection is esti depending upon the indiv. e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 mi idual case. Any com r, U.S. Patent and T. D THIS ADDRESS.	e public which is to file (a nutes to complete, includ nuters on the amount of rademark Office, U.S. Do SEND TO: Commission	and by the USPTO to process) ling gathering, preparing, and time you require to complete epartment of Commerce, P.O. er for Patents, P.O. Box 1450,

Alexandria, Virginia 22313-1450.

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10/591,693	07/13/2007	Roland Ringstrom	1027651-000532	2954	
21839 7	590 06/29/2010		EXAM	INER	
BUCHANAN, I	NGERSOLL & ROO	TEATERS, LINDSEY C			
POST OFFICE BOX 1404			ART UNIT	PAPER NUMBER	
ALEXANDRIA, '	VA 22313-1404		3742		
			DATE MAILED: 06/29/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/591,693	RINGSTROM, ROLAND				
Notice of Allowability	Examiner	Art Unit				
	LINDSEY C. TEATERS	3742				
	LINDSET C. TEATERS	3742				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subjection	s application. If not included ation will be mailed in due course. THIS				
1. \boxtimes This communication is responsive to <u>reply filed on 06/15/20</u>	<u>010</u> .					
2. The allowed claim(s) is/are <u>1-8</u> .						
3. Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have).				
2. ☐ Certified copies of the priority documents have		Ο				
3. \(\sum \) Copies of the certified copies of the priority do	, ,					
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	nal Patent Annlication				
 Notice of References Cited (PTO-692) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Sumn					
· · · · · · · · · · · · · · · · · · ·	Paper No./Mai	l Date				
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🔲 Examiner's Am	enamenvComment				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	tement of Reasons for Allowance				
# INDOES OF TEATEROY	9.					
/LINDSEY C TEATERS/ Examiner, Art Unit 3742						

Art Unit: 3742

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Allowance of claims 1-8 is indicated because none of the prior art of record teaches an apparatus for evaporative cooling having a vacuum chamber comprising a second chamber concentrically surrounding a first chamber, the first chamber having an upper part located inside the vacuum chamber and a lower part located beneath the vacuum chamber and extending downwards below a bottom wall of the vacuum chamber so that the length of the lower part below the bottom wall is at least the same as the length of the upper part inside the vacuum chamber, and a coolant conduit positioned inside the lower part of the first chamber for delivering coolant. Including the conduit inside the lower part of the first chamber serves the benefit of preventing splash of coolant outside of the first chamber into the second chamber and furthermore prevents significant temperature influence on the boundary between the first and second chambers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINDSEY C. TEATERS whose telephone number is 571-270-5913. The examiner can normally be reached on Mon-Thur 8:30am-6:00pm :: alternating Fri 8:30am-4:00pm.

Application/Control Number: 10/591,693 Page 3

Art Unit: 3742

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LINDSEY C TEATERS/ Examiner, Art Unit 3742

06/18/2010 /TU B HOANG/ Supervisory Patent Examiner, Art Unit 3742